

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (amended) An apparatus for making a physiological test and/or delivery of drugs comprising:

an oral platform;

a microchip mounted on or in the platform for making medical diagnoses and/or delivery of drugs; and

a stick connected to the platform to serve as a handle and ~~or~~ conduit from the microchip on the platform for exterior communication with the microchip.

2. – 3. (cancelled)

4. (amended) The apparatus of claim 1 where the platform has a plurality of separate fluidic ports defined therein conducive for communication of saliva to or oral delivery from the microchip.

5. (original) The apparatus of claim 1 further comprising a base unit connected to the stick and communicated to the microchip.

6. (original) The apparatus of claim 5 where the platform, microchip, and stick are combined together into a lollipop and further comprising a plurality of base units which

are interchangeable with a plurality of lollipops.

7. (cancelled)

8. (amended) The apparatus of claim 6 further comprising a ~~where the~~ cradle unit which further provides data processing, communication and/or display in addition to operation of the microchip and base unit.

9. – 12. (cancelled)

13. (amended) A method for making a physiological test and/or delivery of drugs comprising:

providing an oral platform;

collecting saliva or breath through the oral platform;

delivering collected saliva or breath to a microchip mounted on or in the platform;

making a medical diagnosis from collected samples of saliva or breath and/or

delivering drugs through the platform; and

~~The method of claim 9 further comprising communicating the microchip with a~~
base unit.

14. (amended) The method of claim 13 further comprising providing a plurality of platforms, microchips, and sticks as an integral units as a plurality of lollipops and interchangeably communicating a plurality of lollipops with the base unit.

15. (cancelled)

16. (amended) The method of claim 13 ~~45~~ further comprising performing data processing, communicating data, and/or displaying data ~~through the cradle unit~~ from the microchip through a cradle unit, which data processing, communicating data, and/or displaying data is not performed by the microchip.

17. – 18. (cancelled)

19. (amended) A method for making a physiological test and/or delivery of drugs comprising:

providing an oral platform;

collecting saliva or breath through the oral platform;

delivering collected saliva or breath to a microchip mounted on or in the platform;

making a medical diagnosis from collected samples of saliva or breath and/or

delivering drugs through the platform; and

~~The method of claim 9~~ where making a medical diagnosis from collected samples of saliva or breath comprises making the medical diagnosis within the platform, microchip, and/or stick combined in as an integral lollipop unit as a lollipop in combination with a based unit communicated to the lollipop unit.

20. (original) The method of claim 19 further comprising interchanging a plurality of lollipops with a base unit for making a corresponding plurality of medical diagnoses.

21. (withdrawn) A micro-laboratory for oral insertion to collect oral fluids comprising: a microfluidic device for analyzing the oral fluids; an edible coating disposed on the microfluidic device; and a handle coupled to the microfluidic device.

22. (withdrawn) The micro-laboratory of claim 21 further comprising an oral device to be placed in the mouth combined with the microfluidic device to facilitate oral use.

23. (withdrawn) The micro-laboratory of claim 22 where the oral device comprises a pacifier, a bottle nipple, or a toothbrush.

24. (withdrawn) The micro-laboratory of claim 21 where the microfluidic device performs a plurality of tests, including chemical assays that measure the presence of a single analyte or multiple analytes.

25. (withdrawn) The micro-laboratory of claim 21 where the microfluidic device performs tests that monitor physical phenomena including temperature, viscosity, suction strength, saliva flow, or mouth activity.

26. (withdrawn) The micro-laboratory of claim 21 where the microfluidic device performs assays that include colorimetric assays (e.g., indicators for ions or pH),

absorbance, titrations, electrochemical (voltametry, amperometry, conductivity), optical scattering, immunoassays, or separations including electrophoresis and chromatography.

27. (withdrawn)The micro-laboratory of claim 21 where the microfluidics device collects saliva, whereby sustained collection, higher acceptance by a patient of collection, and the ability to preprocess the sample during collection is provided.

28. (withdrawn)The micro-laboratory of claim 27 further comprising a filter and preservation means for preserving the saliva, where the saliva passes through the filter and is combined with preservatives by the preservation means during collection.

29. (withdrawn)The micro-laboratory of claim 21 further comprising means for delivering drugs.

30. (withdrawn)The micro-laboratory of claim 29 where the means for delivering drugs is controlled to provide timed drug delivery.

31. (withdrawn)The micro-laboratory of claim 21 where the coating is adapted to aid an assay performed by the microfluidics device.

32. (withdrawn)The micro-laboratory of claim 31 where the coating stimulates salivary action, stimulates a specific target response in the body, or acts as a calibrant to the

assay.

33. (withdrawn)The micro-laboratory of claim 31 where the coating adjusts the time that fluids are transferred between the mouth and the microfluidics device by means of different thicknesses, densities, or resistance to saliva of the coating.

34. (withdrawn)The micro-laboratory of claim 21 further comprising a kit of multiple micro-laboratories for use in a corresponding multiple of tests to provide redundancy over time.

35. (withdrawn)The micro-laboratory of claim 21 further comprising means for inducing a physical change in a patient.

36. (withdrawn)The micro-laboratory of claim 35 where the means for inducing a physical change in a patient comprises a heater, one or more electrodes, or an antenna for RF microwave stimulation.

37. (withdrawn)The micro-laboratory of claim 21 further comprising means for imaging.

38. (withdrawn)The micro-laboratory of claim 37 where the means for imaging comprise a microscope, an endoscope, an ultrasound imaging device, or a microwave imaging device.

39. (withdrawn)The micro-laboratory of claim 21 further comprising an antenna for wireless transmission and wireless programming of the microfluidics device.

40. (withdrawn)The micro-laboratory of claim 21 further comprising an external instrument designed to aid and enhance the utility of the micro-laboratory such as downloading data from the microfluidics device for logging or analysis, to provide power and control over the microfluidics device, or to draw fluid from the microfluidics device.

41. (withdrawn)The micro-laboratory of claim 21 where the microfluidics device performs diagnostics, performs population tests, performs long term tests, monitors therapeutics, or delivers therapeutics over time.

42. (withdrawn)The micro-laboratory of claim 21 where the microfluidics device detects analytes related to tooth decay or periodontal disease.

43. (withdrawn)The micro-laboratory of claim 21 where the microfluidics device is used for sustained data collection of oral fluids with patient acceptance and simplicity of application.

44. (withdrawn)The micro-laboratory of claim 21 where the microfluidics device is used to test for the presence of a therapeutic agent or a secondary agent that correlates to a therapy during the course of treatment to provide information about the correct dosing and effects of therapy.